

Operating Instructions

Cachet EcoWash Print Washer

"Recommended by planet Earth"

Unpacking the Unit

Carefully remove the **Cachet EcoWash** print washer from its carton. Do not lift the unit by the intake or outlet chambers. Open the top of the shipping carton and remove top sponge pad. Place the carton carefully on its side. Ease the unit out of the carton and place it at a convenient height on a flat, level surface to do the small assembly required.

Remove the outer wrap. Take an inventory of what you have received and check it against the following list:

1. One **Cachet EcoWash** print washer.
2. * One set of five low dividers (notches on top)
3. * One set of six high dividers (no notches)
4. Five divider clips (#4)
5. One inlet compartment drain assembly consisting of a section of (#5) 1/4" ID (inside diameter) hose with a white plastic clamp attached and a threaded straight fitting inserted in one end. This assembly goes on the drain on the inlet "A" compartment .
6. One ten-foot (approx.) length of 3/8" ID hose (#6).
7. One 3/4" hose clamp (#7).
8. Two threaded elbow fittings (#8) and one straight threaded fitting #8a.
9. Roll of Teflon tape (#9) to wrap the threads on the elbow fittings.
10. One Magic wand, a rubber tipped plastic rod for fishing smaller prints that have fallen to the bottom of one of the **EcoWash** chambers (#10).
11. One garden hose fitting (#11).

* Dividers for the 16"X20" and 20"X24" EcoWashers, both low and high, are shipped in a separate box from the tank.

Doing the Assembly

1. Wrap teflon tape #9 around the threads of the straight fitting in inlet compartment drain assembly #5 and screw into inlet "A". Put the clamp in the closed position.
2. Take one of the two #8 threaded elbow fittings and wrap the threaded end in Teflon tape. Screw it, finger tight, into the pre threaded hole "B".
3. From the 10' length of 3/8" hose #6, cut off enough hose to run from the inlet "B" to your water source. Cut the hose. Stick one end on the elbow fitting you just screwed into inlet "B." Put the garden hose fitting #11 on the other end of the 3/8" hose and attach to water source.
4. Wrap teflon tape #9 around the threads of the straight fitting #8a and screw it into outlet "C" on back of the unit. From what remains of the 10' length of hose, measure and cut enough hose to reach from the overflow outlet "C" to your sink or drain. Overflow water will exit the **EcoWasher** from outlet "C" during use.

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5. Wrap teflon #9 around the threads of the remaining threaded elbow and screw it, finger tight, into the threaded hole "D" at the bottom left hand side of the EcoWash. Take the remaining length of hose #6 and attach it to the male end of the fitting. Slip the 3/4" hose clamp #7 and put the clamp in the closed position. This hose needs to be long enough to reach your drain or sink. Keep the clamp closed during operation. Open it only when you are draining the unit. (Reminder: Be sure to remove the low dividers when draining the unit)

Preparing to Fill the Unit

Do not fill or drain the unit without removing the low dividers

1. Place the unit is on a flat, level surface that is sturdy enough to hold the weight of the unit. An 11X14 EcoWash filled with water weighs 110 lbs.; the 16X20 , 190 lbs. +; the 20X24, 225 lbs.
2. Level the unit using a level.
3. Remove the protective paper from the low and high dividers.
4. Place the high dividers in the EcoWash.
5. Before you begin filling the EcoWash, be sure the clamp on the inlet compartment drain hose is in the closed position. Be sure the clamp on the drain hose is in the closed position.
6. Fill the unit.
7. Place the low dividers, notches up, in the EcoWash .

Efficient Operation of the EcoWash

1. After the unit is filled, measure the flow rate and adjust the water flow according to the following chart

| EcoWash | Flow in ounces/minute | Flow in milliliters/minute |
|----------------|------------------------------|-----------------------------------|
| 8.5"X11" | 20 ounces | 600 ml |
| 11X14 | 26 ounces | 770 ml |
| 16X20 | 36 ounces | 1065 ml |
| 20X24 | 42 ounces | 1243ml |

Measuring flow rate is simple. Hold a one-liter beaker under the overflow and time the flow with a watch. Too much flow and the unit will overflow, destroying the cascade motion, and wasting a great deal of water. However, if the flow is too little, the unit will not be turning over the water in each chamber the desired every five minutes.

Loading and Unloading Prints

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Before you start loading prints into the **EcoWash**, it's a good idea to rinse them off in a tray. This step gets rid of most (90-95%) of the fixer. The extended Soaking in the **EcoWash** eliminates the remaining stubborn particles of fixer trapped in the fibers of the base material.

If you use any kind of washing aid, follow the manufacturer's instructions but double the manufacturer's recommended wash time; e.g., if the manufacturer recommends 15-minute wash time, make it 30 minutes. When striving for archival results, err on the conservative side.

Load the prints by sliding them in the chambers in sequence beginning with the chamber nearest the inlet. The safest procedure to follow is to always load new prints downstream; first prints in are the first ones out. However, if the prints have been rinsed in clear water before loading them into the **EcoWash**, it doesn't matter where in the washer you put them. The water moving from chamber to chamber will still have sufficient diffusion power to carry away particles that come loose from the fiber base.

*Cachet recommends 45 minute wash times for prints that are rinsed in clear water before putting them into the **EcoWash**; ten minutes less for prints that have gone through a prewash.*

But Don't take as gospel anyone's recommendations for washing times....including ours. All washing procedures, including ones using the **EcoWash**, should be validated as archival by running a residual hypo test. These tests will factor into your washing time formula all the variables like water hardness or softness and your own prewash procedures. Kits for making this test are readily available from a number of places like *Photographer's Formulary in Missoula, Montana*. Or make your own by consulting the *Amphoto Lab Index Handbook*.

The **EcoWash** can be used for washing RC prints or film. Clip sheet films to the side of a divider using one of the clips provided. The water flow in the **EcoWash** is sufficient to wash RC prints or films in about ten minutes.

To prevent damage to the print surface, use care in loading the prints into the washer. Prints sticking to the side of the dividers does not impair washing. Water passes through both sides of the print. If the sticking concerns you, use the magic wand to dislodge the prints. Also use the Magic wand to fish out prints that have settled to the bottom of the chamber.

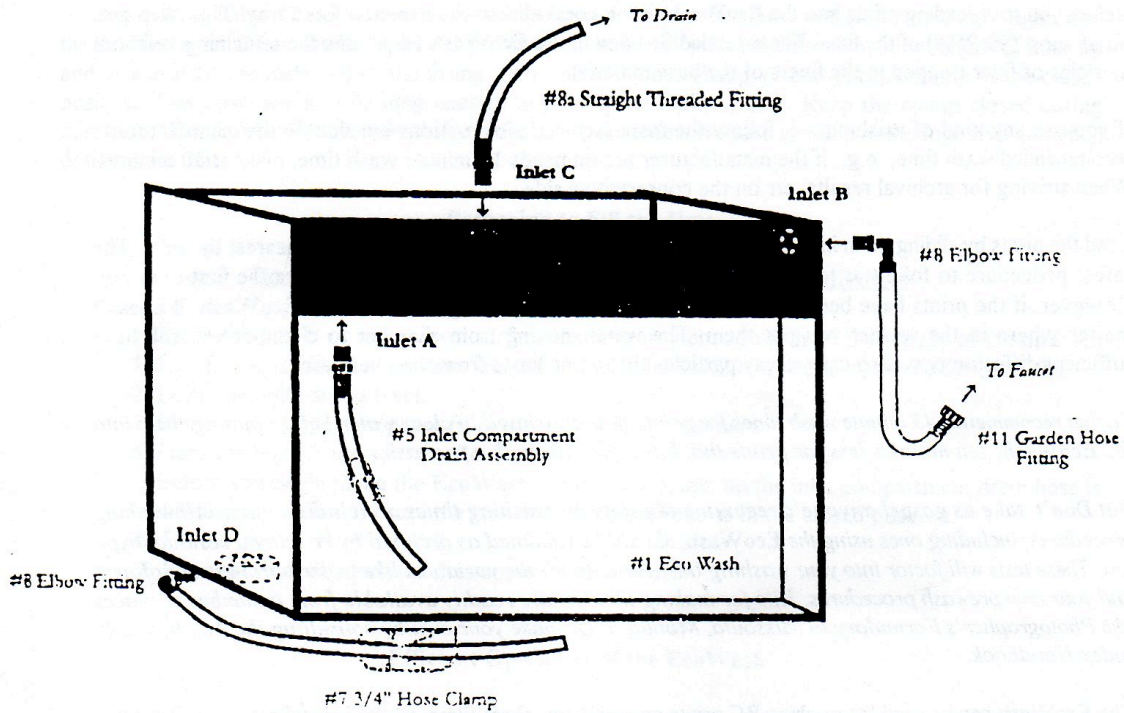
When you clean the **Cachet/fappco EcoWash** do not use alcohol based cleaners like windex. Use mild dish washing soap or a cleaner made for acrylics. **Cachet/fappco** sells a kit with cleaner and a polishing cloth for \$9.95. Also available at \$9.95 is Cachet Super Wash that will cut your wash time. Call Gary at **Cachet/fappco** order desk, if you wish to purchase one. Use the \$3-off coupon enclosed with this instruction packet.

Any problems

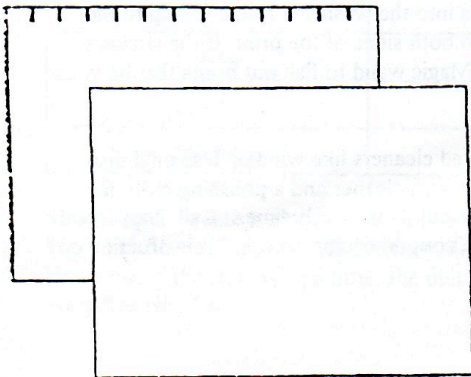
Call 888-3Cachet/fax 888-9Cachet/e-mail onecachet@aol.com

And be sure to visit our web site at onecachet.com

CACHET/fappco Eco Wash Parts Inventory



#2 Notched Low Dividers (5)



#3 High Dividers (6)



#4 Divider Clips (5)



#5 Inlet Compartment Drain Assembly



#5 Ten-foot (approx.) Length of 3/8" ID Hose



#7 3/4" Hose Clamp



#8 Threaded Elbow Fittings (2)



#8a Straight Threaded Fitting (1)



#9 Teflon Tape



#10 Magic Wand



#11 Garden Hose Fitting (1)